

Joint Project Manager for Collective Protection

Platform Survivability Integration (PSI) for Chemical Biological Radiological (CBR) Defense

Mr. Stephen Beaudoin
Product Director
Transportable Platform CBR Survivability
Joint Project Manager - Collective Protection

November 3, 2009

maintaining the data needed, and c including suggestions for reducing	lection of information is estimated to ompleting and reviewing the collecti this burden, to Washington Headquuld be aware that notwithstanding an DMB control number.	ion of information. Send comments is arters Services, Directorate for Infor	regarding this burden estimate of mation Operations and Reports	or any other aspect of the 1215 Jefferson Davis	is collection of information, Highway, Suite 1204, Arlington	
2. REPORT TYPE 2. REPORT TYPE			3. DATES COVERED 00-00-2009			
4. TITLE AND SUBTITLE	5a. CONTRACT NUMBER					
Platform Survivab Radiological (CBR	ogical 5b. GRANT NUMBER					
Kaulological (CDK	5c. PROGRAM ELEMENT NUMBER					
6. AUTHOR(S)				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
				8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)		
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited						
13. SUPPLEMENTARY NOTES 6th Bi-Annual DOD JOCOTAS Meeting with Rigid & Soft Wall Shelter Industry & Indoor & Outdoor Exhibition, 2-4 Nov 2009, Panama City Beach, FL						
14. ABSTRACT						
15. SUBJECT TERMS						
16. SECURITY CLASSIFIC	17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON			
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	Same as Report (SAR)	18	RESPUNSIBLE PERSON	

Report Documentation Page

Form Approved OMB No. 0704-0188



Briefing Topics

- Expanded Role of the Joint PM-Collective Protection
 - Platform Survivability
 Integration (PSI) for CBR
 Defense



Joint Strike Fighter (JSF)
 Decontamination System





CBRN Survivability Policy DOD Instruction 3150.09 – September 2008

- Requires all DoD CBRN mission-critical systems be CBRN survivable
 - Mission-critical systems with operational concepts requiring employment and survivability in a CBR environment or a nuclear environment
- Requirements must be addressed in the capabilities documents and reviewed at each milestone



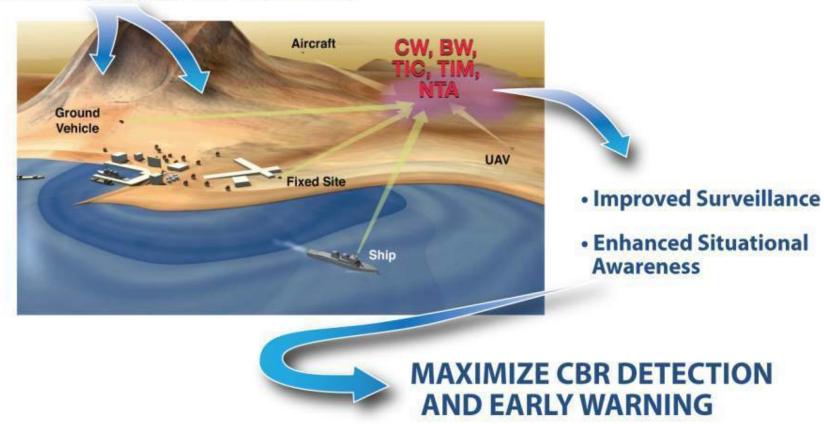
JPM-ColPro/PSI Mission

The Joint Project Manager for ColPro/Platform Survivability and Integration (PSI) Chemical Biological Radiological (CBR) Defense Support will facilitate the research, development, testing, procurement, operations and sustainment, and delivery of CBRN defense system of systems in support of platforms designated as CBRN Mission Critical and those requiring CBRN capabilities.



CBRN Support

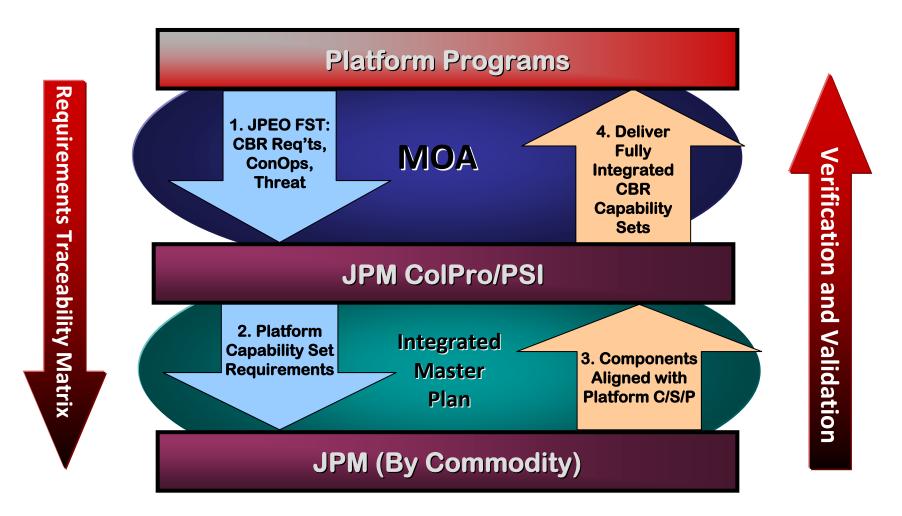
Increasing Equipped Platforms...



Integrate CBR defense systems as part of design and development



JPM ColPro/PSI Support Function



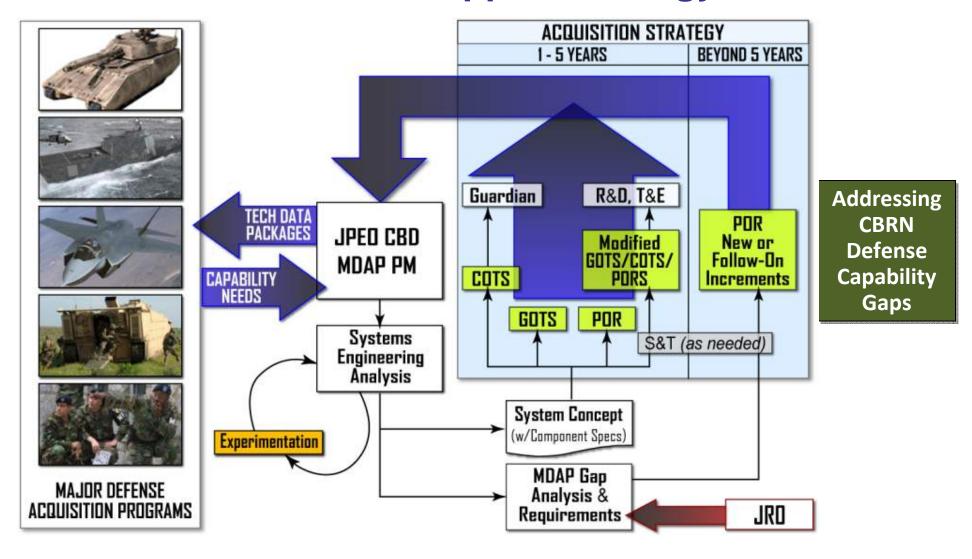
Deliver CBR Capability Sets to Support MDAP CBRN Survivability Needs

UNCLASSIFIED





MDAP Support Strategy

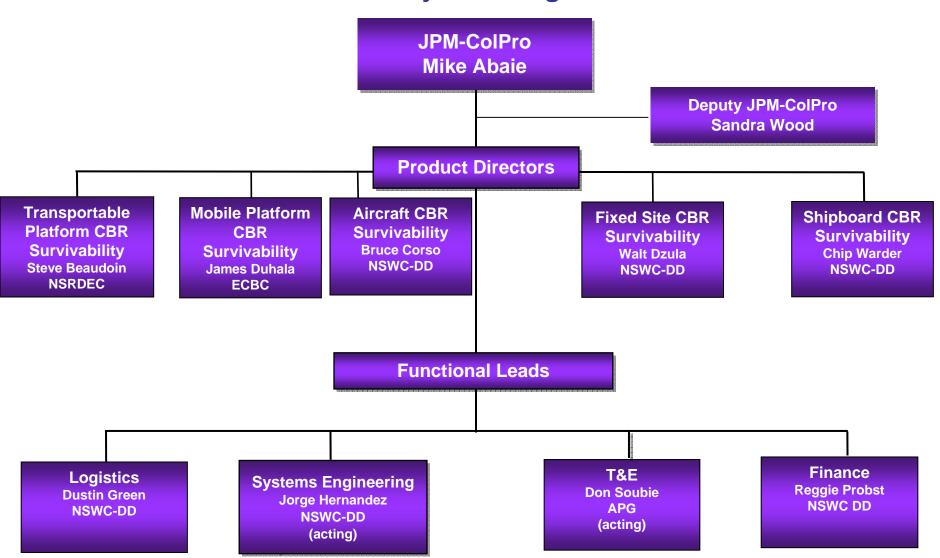


UNCLASSIFIED





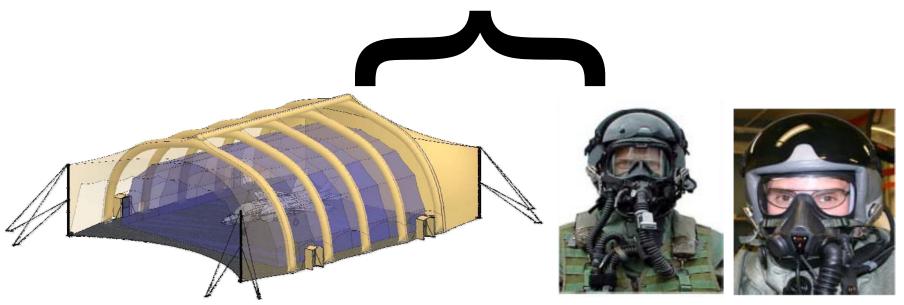
Collective Protection/Platform Survivability Integration Joint Project Management Office





CBR Capability Set Example

Joint Strike Fighter CBR Capability Set



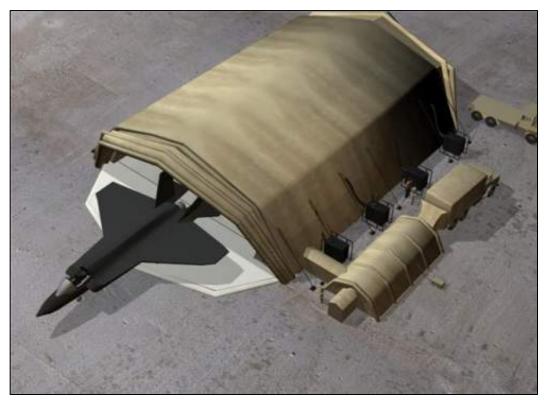
CBR Subsystem - Decon Shelter. JPM-ColPro, JPM-Decon support

CBR Component – JPM-IP Support



Joint Strike Fighter Decontamination System







JSF Decon System Background

- JSF requires pilot CBR survivability CBR decontamination
- JSF CBR survivability support is being coordinated through the JPEO-CBD
- JPM-Decontamination is the lead for the Decon system
 - Environmentally Friendly Aircraft Decon System (EFADS)
- JPM-ColPro supporting
 - Shelter/liner system
 - Interface with EFADS
 - Heaters for Hot Air Decon





Environmentally Friendly Aircraft Decontamination System (EFADS)



Chemical Decontamination

- Hot Air Decontamination (HAD)
- Chemical Filtration included



Biological Decontamination

- Vaporous Hydrogen Peroxide (VHP)
- Catalytic destroyer



JSF Decon Shelter Requirements

- Sized to accommodate the JSF Aircraft
- Incorporate a chemical agent resistant liner compatible with VHP and HAD decon processes
- Compatible with negative pressure operation
- Interface with the decontamination equipment
- Thermal insulation to minimize heat loss during HAD
- Minimize air leakage into the liner
- Minimize electric power and manpower required for setup and operation
- Allow personnel entry/exit during operation
- Withstand power loss of 8 hours
- Withstand wind and snow loads





Aviation Inflatable Maintenance Shelter 2nd Generation (AIMS-2G)



UNCLASSIFIED





Aviation Inflatable Maintenance Shelter 2nd Generation (AIMS-2G)



UNCLASSIFIED



AIMS-2G JSF Decontamination Shelter

- Conceptual adaptation of baseline AIMS 2G to JSF Decon Shelter
 - > Tan = Outer Cover





JSF Decon Shelter Team

- JPM-Decon
- JPM-ColPro
- JPM-Platform Survivability Integration
- NSRDEC
- ECBC
- Vertigo
- Production Products
- Hunter Defense Engineering Services
- STERIS



Questions?